



200 West Mercer St. • Suite 401 • Seattle, WA 98119
Phone: 206.378.1364 • Fax: 206.217.0089 • www.windwardenv.com

August 13, 2012

de maximis, inc.
Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Dear Willard,
Please find our invoice #0612 for Professional Time Rendered from July 1, 2012 to July 31, 2012 for The Passaic RI/FS project.

Task	Amount
Task 11 - Meetings and Communications	4,562.90
Task 16.14 Sm Forage Fish 2010 Tissue Rpt	548.48
Task 18.2 Benthic Lab Coordination	77.25
Task 18.3 Benthic Database Coordination	2,011.08
Task 18.8.2 Lab Coordination	733.88
Task 21.7 Avian 2011 Wnt/Spr Report	813.70
Task 23.2.4 CBS Spring 2011 Data Report	1,382.78
Task 26 CPG Strategic Support	7,951.60
Task 32.2 Bioaccumulation Model	28,913.05
Task 36 Initial ERA Framework	1,653.15
Task 36.1 Screening Assessment TRV Eval	12,045.85
Task 36.2 Initial Benthic Assessment	19,845.13
Task 36.3 Initial Exposure Assessment	7,346.88
Task 36.4 Initial Uncertainty Analysis	329.60
Task 37 DO Monitoring Program	5,425.53
Task 38.1 Background Tissue QAPP Addendum	9,104.03
Task 38.2 Background Benthic QAPP Addendm	12,269.88
	<u>\$ 115,014.77</u>

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Task 11 - Meetings and Communications

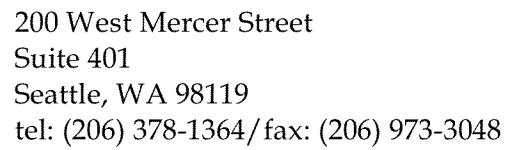
Invoice Date: 7/31/2012

Invoice Number: 10127

Bill To

Passaic RI/FS
Willard Potter
186 Center Street Suite 290
Clinton, NJ 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Lisa Saban	26	160.00	4,160.00
Chris Nelson	3	90.00	270.00
Subtotal			4,430.00
Computer Markup 3%		3.00%	132.90
Total Labor			4,562.90
Total			\$4,562.90



Invoice Date: 7/31/2012

Invoice Number: 10129

de maximis, inc.
Willard Potter
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FOIA_07123_0004990_0003

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Task 18.2 Benthic Lab Coordination

Invoice Date: 7/31/2012

Invoice Number: 10132

Bill To

Passaic RI/FS
Willard Potter
186 Center Street Suite 290
Clinton, NJ 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Jennifer Parker	0.5	150.00	75.00
Computer Markup 3%		3.00%	2.25
Total Labor			77.25
Total			\$77.25



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Task 18.3 Benthic Database Coordination

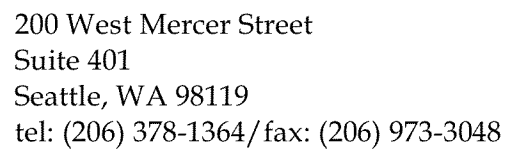
Invoice Date: 7/31/2012

Invoice Number: 10133

Bill To

Passaic RI/FS
Willard Potter
186 Center Street Suite 290
Clinton, NJ 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Kim Goffman	13.75	110.00	1,512.50
Craig Hanson	4	110.00	440.00
Subtotal			1,952.50
Computer Markup 3%		3.00%	58.58
Total Labor			2,011.08
Total			\$2,011.08



Invoice Date: 7/31/2012

Invoice Number: 10134

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FOIA_07123_0004990_0006

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Task 21.7 Avian 2011 Wnt/Spr Report

Invoice Date: 7/31/2012

Invoice Number: 10135

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Linda Cognato	2	110.00	220.00
Jennifer Parker	3.5	150.00	525.00
Mike Yarnes	0.5	90.00	45.00
Subtotal			790.00
Computer Markup 3%		3.00%	23.70
Total Labor			813.70
Total			\$813.70



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Task 23.2.4 CBS Spring 2011 Data Report

Invoice Date: 7/31/2012

Invoice Number: 10136

Bill To

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Willard Potter
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Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Linda Cognato	6	110.00	660.00
Jennifer Parker	4.25	150.00	637.50
Mike Yarnes	0.5	90.00	45.00
Subtotal			1,342.50
Computer Markup 3%		3.00%	40.28
Total Labor			1,382.78
Total			\$1,382.78



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Task 26 CPG Strategic Support

Invoice Date: 7/31/2012

Invoice Number: 10137

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Mike Johns	13	170.00	2,210.00
Nancy Musgrove	6	150.00	900.00
Lisa Saban	8	160.00	1,280.00
Linda Marsh	12.5	90.00	1,125.00
Susan McGroddy	6.75	160.00	1,080.00
Ron Gouguet	2	150.00	300.00
Berit Bergquist	3.75	150.00	562.50
Shannon Katka	1.75	150.00	262.50
Subtotal			7,720.00
Computer Markup 3%		3.00%	231.60
Total Labor			7,951.60

Total

\$7,951.60



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Task 32.2 Bioaccumulation Model

Invoice Date: 7/31/2012

Invoice Number: 10138

Bill To

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Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Nate Lewis	115.75	110.00	12,732.50
John Toll	28.25	160.00	4,520.00
Jessica Huybregts	15.25	110.00	1,677.50
Lisa Saban	1.5	160.00	240.00
Nancy Judd	16.75	150.00	2,512.50
Lucinda Tear	30.75	150.00	4,612.50
Brian Church	10	110.00	1,100.00
Mike Yarnes	1	90.00	90.00
Subtotal			27,485.00
Computer Markup 3%		3.00%	824.55
Total Labor			28,309.55
PER DIEM:			
John Toll		603.50	603.50
Total			\$28,913.05

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Task 36 Preliminary ERA

Invoice Date: 7/31/2012

Invoice Number: 10139

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Lisa Saban	1.5	160.00	240.00
Brian Church	1.5	110.00	165.00
Matt Luxon	8	150.00	1,200.00
Subtotal			1,605.00
Computer Markup 3%		3.00%	48.15
Total Labor			1,653.15
Total			\$1,653.15



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Task 36.1 Screening Assessment and TRV Ev

Invoice Date: 7/31/2012

Invoice Number: 10140

Bill To

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Willard Potter
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Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Jennifer Parker	6.25	150.00	937.50
Kim Goffman	10	110.00	1,100.00
Lisa Saban	25	160.00	4,000.00
Jessica Huybregts	23	110.00	2,530.00
Shannon Katka	12.25	150.00	1,837.50
Susan McGroddy	3	160.00	480.00
Shana Hinds	9	90.00	810.00
Subtotal			11,695.00
Computer Markup 3%		3.00%	350.85
Total Labor			12,045.85

Total \$12,045.85



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Task 36.2 Initial Benthic Assessment

Invoice Date: 7/31/2012

Invoice Number: 10141

Bill To

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Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Brian Church	59	110.00	6,490.00
Nancy Musgrove	6	150.00	900.00
Linda Marsh	8.25	90.00	742.50
Lisa Saban	18	160.00	2,880.00
Mike Johns	13	170.00	2,210.00
Craig Hanson	5	110.00	550.00
Lucinda Tear	6	150.00	900.00
Jennifer Parker	2.5	150.00	375.00
Subtotal			15,047.50
Computer Markup 3%		3.00%	451.43
Total Labor			15,498.93
COSTS			
Travel (BOA7/15/12)		1,569.60	1,569.60
Travel (BOA7/15/12)		1,569.60	1,569.60
Total Costs			3,139.20
PER DIEM:			
Mike Johns		603.50	603.50
Lisa Saban		603.50	603.50
Total			\$19,845.13



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Task 36.3 Initial Exposure Assessment

Invoice Date: 7/31/2012

Invoice Number: 10142

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Suzanne Replinger	4.5	110.00	495.00
Berit Bergquist	4.25	150.00	637.50
Shannon Katka	14.25	150.00	2,137.50
Jessica Huybregts	17.5	110.00	1,925.00
Lisa Saban	2	160.00	320.00
Linda Marsh	11	90.00	990.00
Jenny Love	6.75	90.00	607.50
Subtotal			7,112.50
Computer Markup 3%		3.00%	213.38
Total Labor			7,325.88
 COSTS			
Travel (BOA7 / 15 / 12)		83.00	83.00
Travel (BOA7 / 15 / 12)		30.00	30.00
Travel (BOA7 / 15 / 12)		38.00	38.00
Travel (BOA7 / 15 / 12)		45.00	45.00
Travel(BOA7 / 15 / 12)		-175.00	-175.00
Total Costs			21.00

Total

\$7,346.88



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Task 36.4 Initial Uncertainty Analysis

Invoice Date: 7/31/2012

Invoice Number: 10143

Bill To

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Willard Potter
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Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Lisa Saban	2	160.00	320.00
Computer Markup 3%		3.00%	9.60
Total Labor			329.60
Total			\$329.60



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Task 37 DO Monitoring Program

Invoice Date: 7/31/2012

Invoice Number: 10144

Bill To

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Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Lisa Saban	7	160.00	1,120.00
Jennifer Parker	16.75	150.00	2,512.50
Mike Johns	3	170.00	510.00
Craig Hanson	3.5	110.00	385.00
Thai Do	4	110.00	440.00
Karen Tobiason	2	150.00	300.00
Subtotal			5,267.50
Computer Markup 3%		3.00%	158.03
Total Labor			5,425.53
Total			\$5,425.53



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Task 38.1 Background Tissue QAPP Addendum

Invoice Date: 7/31/2012

Invoice Number: 10145

Bill To

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Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Linda Cognato	0.5	110.00	55.00
Jennifer Parker	16.25	150.00	2,437.50
Kim Goffman	2.5	110.00	275.00
Shannon Katka	14.5	150.00	2,175.00
Thai Do	18	110.00	1,980.00
Craig Hanson	0.5	110.00	55.00
Mike Johns	1	170.00	170.00
Lisa Saban	8	160.00	1,280.00
Lucinda Tear	1	150.00	150.00
Susan McGroddy	1.5	160.00	240.00
Subtotal			8,817.50
Computer Markup 3%		3.00%	264.53
Total Labor			9,082.03
 COSTS			
Supplies (NJDFW7/31/12)		22.00	22.00

Total

\$9,104.03



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Task 38.2 Background Benthic QAPP Addendum

Invoice Date: 7/31/2012

Invoice Number: 10146

Bill To

de maximis, inc.
Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from July 1, 2012 to July 31, 2012			
Craig Hanson	12	110.00	1,320.00
Shannon Katka	15.25	150.00	2,287.50
Jennifer Parker	22.25	150.00	3,337.50
Thai Do	21.25	110.00	2,337.50
Lisa Saban	8	160.00	1,280.00
Linda Cognato	1.5	110.00	165.00
Linda Marsh	5.5	90.00	495.00
Brian Church	1.75	110.00	192.50
Kim Goffman	3.5	110.00	385.00
Karen Tobiason	0.75	150.00	112.50
Subtotal			11,912.50
Computer Markup 3%		3.00%	357.38
Total Labor			12,269.88

Total

\$12,269.88

PASSAIC RI/FS - PER DIEM TRACKING

Task 32.2

July 2012 Invoice

	John Toll	Total
Monday, July 30, 2012		-
Tuesday, July 31, 2012	175.75	175.75
Wednesday, August 01, 2012	191.00	191.00
Thursday, August 02, 2012	191.00	191.00
Friday, August 03, 2012	45.75	45.75
Saturday, August 04, 2012		-
Sunday, August 05, 2012		-
TOTAL	603.50	603.50

PASSAIC RI/FS - PER DIEM TRACKING

Task 36.2

July 2012 Invoice

	Lisa Saban	Mike Johns	Total
Monday, July 30, 2012			-
Tuesday, July 31, 2012	175.75	175.75	351.50
Wednesday, August 01, 2012	191.00	191.00	382.00
Thursday, August 02, 2012	191.00	191.00	382.00
Friday, August 03, 2012	45.75	45.75	91.50
Saturday, August 04, 2012			-
Sunday, August 05, 2012			-
TOTAL	603.50	603.50	1,207.00

Passaic Labor Report

Task 11 - Meetings and Communications

Chris Nelson

Date	Hours	Rate	Extended	Notes
7/9/2012	1.00	90.00	\$90.00	Assisting Lisa with budgets.
7/11/2012	0.50	90.00	\$45.00	Assisting Lisa with budgets.
7/19/2012	1.00	90.00	\$90.00	Assisting Lisa with budgets.
7/20/2012	0.50	90.00	\$45.00	Assisting Lisa with budgets.
Summary for Chris Nelson				
	3.00		\$270.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/2/2012	3.00	160.00	\$480.00	scopes and budgeting
7/3/2012	2.00	160.00	\$320.00	continue scopes and budgeting
7/8/2012	4.00	160.00	\$640.00	budgeting and tracking tasks
7/9/2012	4.00	160.00	\$640.00	budgeting and tracking tasks
7/10/2012	4.00	160.00	\$640.00	continue developing sows and tracking tasks
7/18/2012	4.00	160.00	\$640.00	updating sows and task budgets
7/19/2012	4.00	160.00	\$640.00	continue updating sows and task budgets
7/26/2012	1.00	160.00	\$160.00	go over budgets and new tasks set up
Summary for Lisa Saban				
	26.00		\$4,160.00	

Summary for Task 11 - Meetings and Communications
29.00 \$4,430.00

Task 16.14 Sm Forage Fish 2010 Tissue Rpt

Jennifer Parker

Date	Hours	Rate	Extended	Notes
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7/18/2012	2.00	150.00	\$300.00	Worked with editor to prepare document for delivery to USEPA and conducting QC. Posted report to EPA sharepoint website and project portal and updated dmi. Sent report to NRD consultants. Updated schedule and document tracking spreadsheet.
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Summary for Jennifer Parker	2.00		\$300.00	
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Linda Cognato

Date	Hours	Rate	Extended	Notes
7/18/2012	1.50	110.00	\$165.00	Prepared SFF Report for submittal to EPA. Changed date, deleted P&C, checked headers, checked footers, checked pagination, checked appendices, removed P&Cs, recreated PDFs if necessary, created figure folio, created portfolio.

Summary for Linda Cognato	1.50		\$165.00	
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Mike Yarnes

Date	Hours	Rate	Extended	Notes
7/18/2012	0.75	90.00	\$67.50	Began and finished GIS map edits to maps for document.

Summary for Mike Yarnes	0.75		\$67.50	
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Summary for Task 16.14 Sm Forage Fish 2010 Tissue Rpt	4.25		\$532.50	
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Task 18.2 Benthic Lab Coordination

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/6/2012	0.50	150.00	\$75.00	Reviewed laboratory invoices and tracked costs.

Summary for Jennifer Parker	0.50		\$75.00	
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Summary for Task 18.2 Benthic Lab Coordination	0.50		\$75.00	
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Task 18.3 Benthic Database Coordination

Craig Hanson

Date	Hours	Rate	Extended	Notes
7/17/2012	2.00	110.00	\$220.00	Addressing AECOM's questions regarding benthic coordinates.
7/18/2012	2.00	110.00	\$220.00	Addressing AECOM's questions regarding benthic coordinates.
Summary for Craig Hanson		4.00	\$440.00	

Kim Goffman

Date	Hours	Rate	Extended	Notes
7/11/2012	5.00	110.00	\$550.00	Continue prep of LRC SSP dataset for risk use (adjust units, set up best result selection, set up sum calcs).
7/12/2012	4.00	110.00	\$440.00	Finish prep of LRC SSP dataset for risk use (QC sum calcs, average duplicates, OC-norm results).
7/19/2012	1.00	110.00	\$110.00	Respond to AECOM questions re: accessible sediment.
7/27/2012	0.75	110.00	\$82.50	Review existing exports and estimate hours to regenerate following dataset updates.
7/30/2012	1.00	110.00	\$110.00	Export colocated tissue/sediment dataset based on latest dataset.
7/31/2012	2.00	110.00	\$220.00	Work with CH2M and ddms to identify dredge locations to exclude from updated risk dataset. Communicate findings to AECOM.
Summary for Kim Goffman		13.75	\$1,512.50	

Summary for Task 18.3 Benthic Database Coordination
17.75 \$1,952.50

Task 18.8.2 Lab Coordination

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/3/2012	1.00	150.00	\$150.00	Review of invoices and tracked storage fees.
7/19/2012	1.50	150.00	\$225.00	Reviewed invoices, contacted AP with question invoice, and created July sample storage summary spreadsheet (as requested by dmi).
7/20/2012	0.25	150.00	\$37.50	Conducted invoice QC and sent dmi sample storage fees spreadsheet.
7/30/2012	0.50	150.00	\$75.00	Prepared a list of SDGs to request full D/F EDD as requested by dmi.
7/31/2012	1.50	150.00	\$225.00	Called AECOM to discuss dioxin and furan EDD requests (for the non 2,3,7,8-substituted congeners) and requested EDDs from AP. Discussed EDD request with ddms.

Summary for Jennifer Parker

4.75

\$712.50

Summary for Task 18.8.2 Lab Coordination

4.75

\$712.50

Task 21.7 Avian 2011 Wnt/Spr Report

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/17/2012	2.50	150.00	\$375.00	Coordination with editor to prepare report for delivery to USEPA and conducting QC. Posted report to EPA Sharepoint website and project portal and updated dmi. Updated schedule and document tracking spreadsheet.
7/18/2012	1.00	150.00	\$150.00	Contacted ddms to determine why notification groups were not available when posting Avian report to project portal. Re-posted Avian report. Sent report to NRD consultants.
Summary for Jennifer Parker				
	3.50		\$525.00	

Linda Cognato

Date	Hours	Rate	Extended	Notes
7/17/2012	2.00	110.00	\$220.00	Prepared Win-Spr Avian report for submittal to EPA. Changed date, deleted P&C, checked headers, checked footers, checked pagination, checked appendices, removed P&Cs, recreated PDFs if necessary, created figure folio, created portfolio).
Summary for Linda Cognato				
	2.00		\$220.00	

Mike Yarnes

Date	Hours	Rate	Extended	Notes
7/18/2012	0.50	90.00	\$45.00	Began and finished GIS map edits to maps for document.
Summary for Mike Yarnes				
	0.50		\$45.00	
Summary for Task 21.7 Avian 2011 Wnt/Spr Report				
	6.00		\$790.00	

Task 23.2.4 CBS Spring 2011 Data Report

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/18/2012	3.00	150.00	\$450.00	Worked with editor to prepare document for delivery to USEPA. Posted report to EPA sharepoint website and project portal and updated dmi. Sent report to NRD consultants. Updated schedule and document tracking spreadsheet.
7/19/2012	1.25	150.00	\$187.50	Organized Appendix N files and coordinated with support staff to have Appendix N saved on CD.
Summary for Jennifer Parker				
	4.25		\$637.50	

Linda Cognato

Date	Hours	Rate	Extended	Notes
7/17/2012	1.00	110.00	\$110.00	Began preparing CBS report for submittal to EPA. Changed date, removed P&C, checked headers, checked footers, checked page breaks, began fixing page breaks.
7/18/2012	5.00	110.00	\$550.00	Continued preparing files for submission to EPA. Continued fixing page breaks, fixed line breaks, fixed tables, fixed headers, fixed heads, identified and fixed issue in Appendix A, updated footers on all appendices, removed P&C, created figure folio, created dividers, created new PDF files if necessary, created portfolios.
Summary for Linda Cognato				
	6.00		\$660.00	

Mike Yarnes

Date	Hours	Rate	Extended	Notes
7/18/2012	0.50	90.00	\$45.00	Began and finished GIS map edits to maps for document.
Summary for Mike Yarnes				
	0.50		\$45.00	

Summary for Task 23.2.4 CBS Spring 2011 Data Report
10.75 \$1,342.50

Task 26 CPG Strategic Support**Berit Bergquist**

Date	Hours	Rate	Extended	Notes
7/27/2012	2.00	150.00	\$300.00	Look into revised dioxin cleanup levels at Centredale Manor site

7/31/2012	1.75	150.00	\$262.50	Research EPA's definition of goals
Summary for Berit Bergquist		3.75	\$562.50	

Linda Marsh

Date	Hours	Rate	Extended	Notes
7/25/2012	3.50	90.00	\$315.00	Discussed mapping needs for the RASC and BERA, and began resolving accessible sediment questions.
7/26/2012	4.00	90.00	\$360.00	Finished resolving accessible sediment questions.
7/30/2012	2.25	90.00	\$202.50	Called Matt Hodges about accessible sediment and defined bathymetry questions for Lisa to discuss with Betsy.
7/31/2012	2.75	90.00	\$247.50	Wrote up questions regarding consistency in use of bathymetry data.
Summary for Linda Marsh		12.50	\$1,125.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/17/2012	4.00	160.00	\$640.00	start preping for aug rasc mgt
7/24/2012	2.00	160.00	\$320.00	review nam's succ stage infor
7/27/2012	2.00	160.00	\$320.00	go over request from bill on epa region 1 issue
Summary for Lisa Saban		8.00	\$1,280.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
7/2/2012	2.00	170.00	\$340.00	Work on followup items from conversations at RASC meeting
7/25/2012	3.00	170.00	\$510.00	BERA planning
7/31/2012	8.00	170.00	\$1,360.00	Finish presentastions and prepare for TC and RASC meetings
Summary for Mike Johns		13.00	\$2,210.00	

Nancy Musgrove

Date	Hours	Rate	Extended	Notes
7/11/2012	1.00	150.00	\$150.00	Begin assigning successional stage codes to Raritan Bay taxa to answer a question Mike had
7/12/2012	4.00	150.00	\$600.00	Complete assigning benthic successional stages to Raritan data
7/13/2012	1.00	150.00	\$150.00	Prepare a brief summary of successional stage distribution

Summary for Nancy Musgrove
6.00

\$900.00

Ron Gouquet

Date	Hours	Rate	Extended	Notes
7/27/2012	2.00	150.00	\$300.00	tidal datum analysis; duration of exposure mud flats

Summary for Ron Gouquet
2.00

\$300.00

Shannon Katka

Date	Hours	Rate	Extended	Notes
7/30/2012	1.75	150.00	\$262.50	development of concentration with abundance graphs on fish tissue and selected COPECs

Summary for Shannon Katka
1.75

\$262.50

Susan McGroddy

Date	Hours	Rate	Extended	Notes
7/25/2012	1.00	160.00	\$160.00	Review results of SLERA and identify issues for further investigation going forward.
7/26/2012	2.75	160.00	\$440.00	Review bioaccumulation data, meet with Brian to identify analyses.
7/30/2012	1.50	160.00	\$240.00	Review slides for Lisa's presentation.
7/31/2012	1.50	160.00	\$240.00	Review presentation for Lisa.

Summary for Susan McGroddy
6.75

\$1,080.00

Summary for Task 26 CPG Strategic Support

53.75

\$7,720.00

Task 32.2 Bioaccumulation Model

Brian Church

Date	Hours	Rate	Extended	Notes
7/20/2012	1.50	110.00	\$165.00	Compiling risk output in access and dealing with enormous file sizes (at request of Nate L)
7/23/2012	0.50	110.00	\$55.00	Created spreadsheet of extracted model parameters that had a high posterior probability based on the empirical data (for Nate L and Nancy J)
7/30/2012	4.00	110.00	\$440.00	Created graphics for Susie of sediment, tissue, and cumulative frequency in forage fish, mummichog, and invertebrates

7/31/2012	4.00	110.00	\$440.00	Addressing emails from John, Susie; editing graphs; doing statistical analyses and interpretation of outlier data points in bioaccumulation models; revising data and graphs to incorporate missing data; creating slides for Lisa
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Summary for Brian Church
10.00

\$1,100.00

Jessica Huybregts

Date	Hours	Rate	Extended	Notes
7/3/2012	1.00	110.00	\$110.00	Discussed required changes to SLERA with Lisa.
7/5/2012	6.50	110.00	\$715.00	SLERA updates following CPG meeting.
7/6/2012	6.50	110.00	\$715.00	SLERA updates following CPG meeting.
7/30/2012	1.25	110.00	\$137.50	Updated tissue conc/sediment plots using lipid-normalized data.

Summary for Jessica Huybregts
15.25

\$1,677.50

John Toll

Date	Hours	Rate	Extended	Notes
7/2/2012	5.00	160.00	\$800.00	Time spent clarifying and then responding to a request from Bill Schew for a different version of the bioaccumulation modeling tool than what we provided to the RASC in February 2012. Fulfilling the request was more complicated because changes that have been made between February and July, so we couldn't just make the requested change to the February deliverable without also adding in other things that have been updated in the interim. Had to evaluate options including partial update to 2/12 deliverable, complete update to 2/12 deliverable, or recreating the (up-to-date) equivalent of the 2/12 deliverable from the current version of the model. Also had to make sure that this request was going through proper channels, and that the managers understood the possible ripple effects from fulfilling it.
7/3/2012	2.00	160.00	\$320.00	Exchanges w/ J. Connolly re: model equations, coordinating work on GSA
7/6/2012	1.00	160.00	\$160.00	Got updated on GSA progress and scheduled next check-in
7/9/2012	4.00	160.00	\$640.00	GSA troubleshooting
7/11/2012	1.00	160.00	\$160.00	WW team meeting
7/16/2012	2.50	160.00	\$400.00	Ongoing work on the GSA and developing a better understanding of uncertainties and how they affect the GSA and calibration
7/19/2012	2.50	160.00	\$400.00	Attended RASC teleconference, briefed the RASC on the status of the bioaccumulation modeling work and talked about getting me better plugged into the chemical fate modeling work. Reviewed initial GSA results for lognormal likelihood functions.

7/20/2012	1.25	160.00	\$200.00	GSA team meeting to look at the latest version of the GSA tool and graphics, discuss the results of using lognormal likelihoods, and identify and assign next steps.
7/26/2012	1.00	160.00	\$160.00	Meeting with GSA team to prep for next week's TC/RASC meetings.
7/30/2012	4.00	160.00	\$640.00	Prepared for TC/RASC, and reviewed/evaluated fish tissue by reach
7/31/2012	4.00	160.00	\$640.00	Prep for TC/RASC meetings (primarily investigating chemistry data looking for explanations for anomalous samples, also working on presentation materials)
Summary for John Toll		28.25	\$4,520.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/3/2012	0.50	160.00	\$80.00	update on bioaccum modeling
7/27/2012	1.00	160.00	\$160.00	meet on bioacc model issues
Summary for Lisa Saban		1.50	\$240.00	

Lucinda Tear

Date	Hours	Rate	Extended	Notes
7/10/2012	6.00	150.00	\$900.00	discuss GSA structure with Nate; create some trial graphs for plotting priors vs. posteriors in R; check Nate's normal pdf equations (as used in Access program)
7/11/2012	3.75	150.00	\$562.50	Refine goals and tools for user interface, types of questions to be answered by GSA tool with John, Nate, Nancy J; test speed of one type of calc in R.
7/12/2012	1.00	150.00	\$150.00	Test R code for graphing on full dataset and fine-tune indexing
7/16/2012	4.50	150.00	\$675.00	Review architecture of GSA in Excel and Access. Begin Memo to report.
7/18/2012	7.00	150.00	\$1,050.00	More editing, formula documentaiton of QC memo, Try to read excel files into R to deal with rounding issues, investigate effects of rounding on distributions of concentrations
7/19/2012	1.00	150.00	\$150.00	lognormal likelihood revision; more attempts to read Excel into R
7/20/2012	1.50	150.00	\$225.00	GSA update
7/25/2012	3.00	150.00	\$450.00	Start approach to investigating effects of input parameters; description of effects of lognormal vs. normal likelihoods; discuss effects of rounding.
7/26/2012	3.00	150.00	\$450.00	finish description of methods to evaluate input parameters used in GSA; progress review
Summary for Lucinda Tear		30.75	\$4,612.50	

Mike Yarnes

Date	Hours	Rate	Extended	Notes
7/26/2012	0.50	90.00	\$45.00	Began and finished manipulating graphics for import into PPT slides.
7/27/2012	0.50	90.00	\$45.00	Began and finished importing manipulated graphics into PPT slides.
Summary for Mike Yarnes				
	1.00		\$90.00	

Nancy Judd

Date	Hours	Rate	Extended	Notes
7/9/2012	1.50	150.00	\$225.00	Review initial GSA results
7/11/2012	2.50	150.00	\$375.00	Progress review on GSA, and review current GSA
7/13/2012	3.25	150.00	\$487.50	Follow up on GSA review
7/16/2012	2.50	150.00	\$375.00	GSA results review
7/20/2012	2.50	150.00	\$375.00	Review GSA progress
7/23/2012	1.00	150.00	\$150.00	Review consolidation of GSA runs and summary of inputs from top runs
7/27/2012	1.50	150.00	\$225.00	Internal meeting on bioaccum/benthic issues and follow up
7/30/2012	2.00	150.00	\$300.00	Water contribution, benthic issues
Summary for Nancy Judd				
	16.75		\$2,512.50	

Nate Lewis

Date	Hours	Rate	Extended	Notes
7/2/2012	0.50	110.00	\$55.00	Creating unlocked version of steady state model for external distribution
7/3/2012	8.00	110.00	\$880.00	GSA
7/6/2012	2.00	110.00	\$220.00	GSA
7/9/2012	8.00	110.00	\$880.00	GSA design
7/10/2012	7.00	110.00	\$770.00	GSA design
7/11/2012	5.00	110.00	\$550.00	GSA design
7/12/2012	5.50	110.00	\$605.00	GSA design
7/13/2012	7.00	110.00	\$770.00	GSA design
7/16/2012	6.00	110.00	\$660.00	GSA
7/17/2012	9.50	110.00	\$1,045.00	GSA
7/18/2012	5.50	110.00	\$605.00	GSA
7/19/2012	6.00	110.00	\$660.00	GSA
7/20/2012	6.00	110.00	\$660.00	GSA

7/23/2012	5.50	110.00	\$605.00	GSA
7/24/2012	7.75	110.00	\$852.50	GSA
7/25/2012	8.00	110.00	\$880.00	GSA
7/26/2012	8.00	110.00	\$880.00	GSA
7/27/2012	8.00	110.00	\$880.00	GSA
7/31/2012	2.50	110.00	\$275.00	FWM GSA

Summary for Nate Lewis

115.75	\$12,732.50
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Summary for Task 32.2 Bioaccumulation Model

219.25	\$27,485.00
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Task 36 Initial ERA Framework

Brian Church

Date	Hours	Rate	Extended	Notes
7/17/2012	1.50	110.00	\$165.00	Seeking out Landis papers (and others) on the relative risk model (requested by Lisa S)

Summary for Brian Church

1.50	\$165.00
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Lisa Saban

Date	Hours	Rate	Extended	Notes
7/3/2012	0.50	160.00	\$80.00	start RRM search
7/27/2012	1.00	160.00	\$160.00	review matts rrs initial concepts

Summary for Lisa Saban

1.50	\$240.00
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Matt Luxon

Date	Hours	Rate	Extended	Notes
7/24/2012	1.00	150.00	\$150.00	Developing conceptual framework for LPR relative risk assessment.
7/25/2012	3.50	150.00	\$525.00	Developing conceptual framework for LPR relative risk assessment. Identifying sources-stressor relationships for RRA.
7/26/2012	3.50	150.00	\$525.00	Developing conceptual framework for LPR relative risk assessment. Identifying sources-stressor relationships for RRA.

Summary for Matt Luxon

8.00	\$1,200.00
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Summary for Task 36 Initial ERA Framework

11.00	\$1,605.00
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Task 36.1 Screening Assessment TRV Eval

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/3/2012	0.50	150.00	\$75.00	Provided team with summary stat information and discussed future QC that is needed.
7/5/2012	1.50	150.00	\$225.00	Conducted QC of maximum detection concentrations in Appendix tables. Discussed summary statistics with project team.
7/6/2012	2.50	150.00	\$375.00	Conducted QC review of SLERA tables and discussed with task manager.
7/9/2012	0.50	150.00	\$75.00	Conducting QC of data tables.
7/10/2012	1.25	150.00	\$187.50	Providing QC, information on citations, status of reports, and answering questions for consistency of SLERA with data reports and other Passaic documents.

Summary for Jennifer Parker

6.25 \$937.50

Jessica Huybregts

Date	Hours	Rate	Extended	Notes
7/9/2012	7.00	110.00	\$770.00	Updated SLERA based on CPG meeting outcomes.
7/10/2012	7.00	110.00	\$770.00	Updated SLERA based on CPG meeting outcomes.
7/11/2012	3.00	110.00	\$330.00	Updated SLERA based on CPG meeting outcomes.
7/18/2012	0.75	110.00	\$82.50	Updated SLERA based on Susie's comments.
7/19/2012	2.50	110.00	\$275.00	Wrote up new section 6. Created table 6-1.
7/20/2012	0.75	110.00	\$82.50	checked final items for draft SLERA
7/30/2012	0.50	110.00	\$55.00	SLERA minor edits to table 7-1.
7/31/2012	1.50	110.00	\$165.00	Created instructions for Jenny to QC SLERA COPECs tables, COPEC summary tables, and UCL tables.

Summary for Jessica Huybregts

23.00 \$2,530.00

Kim Goffman

Date	Hours	Rate	Extended	Notes
7/6/2012	3.00	110.00	\$330.00	Screen and export summaries for revised small forage and white perch tissue groups.
7/9/2012	2.00	110.00	\$220.00	Prepare SLERA appendix tables for revised white perch groups.
7/10/2012	4.00	110.00	\$440.00	Prepare SLERA appendix tables for surface water groups. Update diet EPC reference for latest perch groups.
7/11/2012	1.00	110.00	\$110.00	QC diet EPCs for latest perch groups.

Summary for Kim Goffman
10.00

\$1,100.00

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/6/2012	1.00	160.00	\$160.00	direction to jessica on slera
7/10/2012	2.00	160.00	\$320.00	giving direction on slera changes
7/17/2012	2.00	160.00	\$320.00	reviewing changes to slera
7/18/2012	2.00	160.00	\$320.00	reviewing changes to slera
7/19/2012	2.00	160.00	\$320.00	giving direction on slera following review
7/20/2012	8.00	160.00	\$1,280.00	finishing slera. delivered to rasc vis upload today
7/21/2012	2.00	160.00	\$320.00	additional delivery of rasc members that could not access portal
7/25/2012	2.00	160.00	\$320.00	slera next steps for presentation
7/30/2012	4.00	160.00	\$640.00	prep slera points for tc mgt
Summary for Lisa Saban	25.00		\$4,000.00	

Shana Hinds

Date	Hours	Rate	Extended	Notes
7/19/2012	5.00	90.00	\$450.00	SLERA edit
7/20/2012	4.00	90.00	\$360.00	SLERA edit
Summary for Shana Hinds	9.00		\$810.00	

Shannon Katka

Date	Hours	Rate	Extended	Notes
7/16/2012	1.25	150.00	\$187.50	review/discuss ingestion rate sources for dietary calculations with Jessica
7/19/2012	4.25	150.00	\$637.50	review of SLERA
7/20/2012	6.75	150.00	\$1,012.50	review and finalize SLERA; write Section 7 for RASC on SLERA results and key issues that will change between SLERA and BERA; final review of appendices
Summary for Shannon Katka	12.25		\$1,837.50	

Susan McGroddy

Date	Hours	Rate	Extended	Notes
7/17/2012	1.50	160.00	\$240.00	Review SLERA text
7/18/2012	1.50	160.00	\$240.00	Review Section 7 SLERA text

Summary for Susan McGroddy

3.00

\$480.00

Summary for Task 36.1 Screening Assessment TRV Eval

88.50

\$11,695.00

Task 36.2 Initial Benthic Assessment

Brian Church

Date	Hours	Rate	Extended	Notes
7/2/2012	0.25	110.00	\$27.50	Replied to email, describing very last exploratory analysis to Lisa
7/3/2012	2.00	110.00	\$220.00	Incorporating additional information into all data forms for the sake of completeness
7/5/2012	6.50	110.00	\$715.00	Put together data for mapping, coordinated with NAM, Mike, Lisa, and Linda to create and plan mapping/data; discussed data treatment with NAM, map layout and layers with Linda. Created spreadsheet with arranged data. Developed best criterion for choosing between benthic successional stage categories. Wrote and responded to emails. Cleaned up data exploration files for delivery. Finished adding the P&C details to documents in the morning.
7/6/2012	3.00	110.00	\$330.00	Looked over map from Linda; began to write up report on data exploratory effort
7/9/2012	3.75	110.00	\$412.50	Reviewed map of successional data and erosional data; writing up report on exploratory analysis
7/10/2012	5.50	110.00	\$605.00	Further reviewed map of successional data and erosional data, today paying attention to satellite imagery and what is "actually there"; writing up report on exploratory analysis, finished first draft; discussed map and data with Mike J.; wrote emails
7/17/2012	6.00	110.00	\$660.00	Extracting data from Germano and Associates 2005 to include in in new map; discussing data with NAM and map with Craig; editing old map; QC of extracted data and other map data; looking over maps and implications (and potential need for edits).
7/18/2012	0.75	110.00	\$82.50	Reviewing map from Craig and suggesting edits; reviewed final version
7/20/2012	4.00	110.00	\$440.00	Helped Craig to create and revise maps; conversed with Mike about the state of exploration and next steps; created a set of slides for the next presentation; reviewed maps and spatial data in order to come up with slides on implications
7/23/2012	3.00	110.00	\$330.00	Continued to look at maps and searched for other spatial information that could explain benthic community structure trends (if any); plotted roughness by river mile to find possible relationship; finished slides for upcoming presentation on the spatial analyses
7/24/2012	0.75	110.00	\$82.50	Discussing benthic stage determination methods with NAM in response to her email of stages determined for Rariton Bay; recalculating stages based on NAM's new methodology

7/25/2012	5.75	110.00	\$632.50	Pulling together information for Mike in advance of presentation; slides, results, new investigation of data using successional stages, toxicity, benthic metrics, erosion, and chemistry (setup and first analyses).
7/26/2012	5.25	110.00	\$577.50	Discussing data with Mike; coordinating with Linda for maps; emails to NAM, etc; finalizing assessment of toxicity vs. successional stages and benthic metrics vs. successional stages and chemistry vs. successional stages, etc.; creating graphs and tables for Mike
7/27/2012	2.25	110.00	\$247.50	Addressing concerns raised by NAM and then Mike over present data; revising and reanalyzing data for changes; reproducing graphs for presentation; emails
7/30/2012	5.25	110.00	\$577.50	Creating graphs, PCA, writing emails, prepping data for analyses, some interpretation of data, reading Iannuzzi et al 2008 in preparation for the PCA
7/31/2012	5.00	110.00	\$550.00	Interpreting PCA, summarizing results, and discussing with Lucinda; creating graphs of biomass by river mile; addressing emails
Summary for Brian Church				
	59.00		\$6,490.00	

Craig Hanson

Date	Hours	Rate	Extended	Notes
7/17/2012	3.00	110.00	\$330.00	Updated the sediment stability and benthic stage map, and generated the boundary roughness map.
7/18/2012	0.50	110.00	\$55.00	Updated the sediment stability and benthic stage map.
7/20/2012	1.50	110.00	\$165.00	Updated 3 taxa and generated 10 taxa benthic stage maps.
Summary for Craig Hanson				
	5.00		\$550.00	

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/31/2012	2.50	150.00	\$375.00	Provided data on SFF samples and sediment locations for RASC presentation, conducted QC on data exports and figures.
Summary for Jennifer Parker				
	2.50		\$375.00	

Linda Marsh

Date	Hours	Rate	Extended	Notes
7/5/2012	0.75	90.00	\$67.50	Prepared a spreadsheet for a map of benthic successional stages in SQT and SPI samples.
7/6/2012	3.00	90.00	\$270.00	Made a map of benthic successional stages in SQT and SPI samples.
7/27/2012	4.50	90.00	\$405.00	Revised benthic successional stage maps for the Aug. 2 RASC meeting
Summary for Linda Marsh				
	8.25		\$742.50	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/5/2012	1.00	160.00	\$160.00	direction on benthic, creating map of successional stage
7/9/2012	2.00	160.00	\$320.00	giving direction on benthic task
7/26/2012	1.00	160.00	\$160.00	benthic assess check in
7/27/2012	2.00	160.00	\$320.00	prep for next week mgt
7/30/2012	4.00	160.00	\$640.00	prep for tc mgt
7/31/2012	8.00	160.00	\$1,280.00	prepare for tc/rasc mgt
Summary for Lisa Saban				
	18.00		\$2,880.00	

Lucinda Tear

Date	Hours	Rate	Extended	Notes
7/26/2012	1.00	150.00	\$150.00	initial review of Ianuzzi SQT paper
7/31/2012	5.00	150.00	\$750.00	Compare WW and Iannuzzi PCA
Summary for Lucinda Tear				
	6.00		\$900.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
7/11/2012	2.00	170.00	\$340.00	Review variables and anlysis process for assigning successional stage to benthci community
7/12/2012	2.00	170.00	\$340.00	Continue to review basis for successional stage analysis
7/19/2012	1.00	170.00	\$170.00	Participate in TC call
7/20/2012	2.00	170.00	\$340.00	Review results of successional stage analysis and begin developing RASC presentation
7/23/2012	3.00	170.00	\$510.00	Work on RASC presentation
7/27/2012	3.00	170.00	\$510.00	Continue to work on presentations to RASC
Summary for Mike Johns				
	13.00		\$2,210.00	

Nancy Musgrove

Date	Hours	Rate	Extended	Notes
7/3/2012	1.50	150.00	\$225.00	Discussed results of successional stage and other attributes of benthic file with Lise. Provided a summary of decision criteria used to develop assignments
7/5/2012	2.50	150.00	\$375.00	worked with Brian to resolve assignment of successional stages for mapping exercises; discussed approach with Mike.

7/17/2012	2.00	150.00	\$300.00	Help Brian with some additional Passaic mapping. Track down original data, enter, recode, and summarize for Brian's use.
Summary for Nancy Musgrove		6.00	\$900.00	
Summary for Task 36.2 Initial Benthic Assessment		117.75	\$15,047.50	

Task 36.3 Initial Exposure Assessment

Berit Bergquist

Date	Hours	Rate	Extended	Notes
7/25/2012	1.50	150.00	\$225.00	internal meeting to discuss exposure areas and approach for BERA
7/27/2012	0.75	150.00	\$112.50	Provide species site use information for exposure area approach compilation
7/31/2012	2.00	150.00	\$300.00	assist with exposure aspects of power point presentation
Summary for Berit Bergquist		4.25	\$637.50	

Jenny Love

Date	Hours	Rate	Extended	Notes
7/30/2012	3.50	90.00	\$315.00	QC'd graphs for species profile presentation (1.75 hr); began QC of COPEC tables (1.75 hr).
7/31/2012	3.25	90.00	\$292.50	Completed QC of COPEC tables.
Summary for Jenny Love		6.75	\$607.50	

Jessica Huybregts

Date	Hours	Rate	Extended	Notes
7/26/2012	4.00	110.00	\$440.00	Developed species profile information (graphs, text). Completed a cursory UCL vs LOAEL assessment and identified COIs for staff ding concentration vs. reach plots.
7/27/2012	5.00	110.00	\$550.00	Modifications to species profile information (graphs, text) for white perch.
7/30/2012	4.00	110.00	\$440.00	Slides for species profile presentation (RASC meeting August 2). Updates to white perch profile based on feedback from Susie and Shannon.
7/31/2012	4.50	110.00	\$495.00	QC'd tissue and diet screen using UCL and LOAELs. Slides for species profile presentation.
Summary for Jessica Huybregts		17.50	\$1,925.00	

Linda Marsh

Date	Hours	Rate	Extended	Notes
7/27/2012	3.00	90.00	\$270.00	began making a habitat layer for the Sept. meeting.
7/30/2012	4.75	90.00	\$427.50	Edited map layers to create polygons from lines of shoreline habitat.
7/31/2012	3.25	90.00	\$292.50	Continued editing habitat polygon.
Summary for Linda Marsh	11.00		\$990.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/26/2012	2.00	160.00	\$320.00	meet with team to go over exploratory analysis
Summary for Lisa Saban	2.00		\$320.00	

Shannon Katka

Date	Hours	Rate	Extended	Notes
7/25/2012	1.50	150.00	\$225.00	internal meeting on tasks for completion to develop refined exposure assumptions for BERA based on previous analyses and identify additional analyses needed, including evaluation of co-located sediment and tissue dataset, and relationships between size and concentrations of fish tissue
7/26/2012	0.50	150.00	\$75.00	review of previous analysis conducted on fish size evaluation and co-located sediment and tissue samples for further analysis/refinement in establishing BERA parameters and refined exposure assumptions
7/27/2012	1.00	150.00	\$150.00	work with Jessica on size and chemistry graph formats for additional analysis on exposure parameters for upcoming TC meeting
7/30/2012	3.75	150.00	\$562.50	preparation of slides for 8/2 meeting regarding ecological exposure areas and next strategic steps from SLERA to BERA
7/31/2012	7.50	150.00	\$1,125.00	preparation of slides for 8/2 meeting regarding ecological exposure areas and next strategic steps from SLERA to BERA
Summary for Shannon Katka	14.25		\$2,137.50	

Suzanne Replinger

Date	Hours	Rate	Extended	Notes
7/17/2012	1.75	110.00	\$192.50	review of SLERA exposure parameters that could be revised

7/25/2012	1.25	110.00	\$137.50	meeting to determine path forward with BERA and evaluation of which exposure parameters could be re-evaluated from SLERA
7/26/2012	1.50	110.00	\$165.00	development of species profiles for BERA data use
Summary for Suzanne Replinger				
	4.50		\$495.00	
Summary for Task 36.3 Initial Exposure Assessment				
	60.25		\$7,112.50	

Task 36.4 Initial Uncertainty Analysis

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/23/2012	2.00	160.00	\$320.00	review parameter uncert @risk
Summary for Lisa Saban				
	2.00		\$320.00	
Summary for Task 36.4 Initial Uncertainty Analysis				
	2.00		\$320.00	

Task 37 DO Monitoring Program

Craig Hanson

Date	Hours	Rate	Extended	Notes
7/20/2012	2.50	110.00	\$275.00	Added monitoring stations and generated coordinates.
7/24/2012	1.00	110.00	\$110.00	Generating proposed sampling locations w/ coordinates and RMS, and map.
Summary for Craig Hanson				
	3.50		\$385.00	

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/13/2012	0.25	150.00	\$37.50	Discussed project status and schedule with OSI.
7/17/2012	0.50	150.00	\$75.00	Provided OSI with update on EPA feedback (double number of locations may be required) and requested pricing information.
7/18/2012	0.50	150.00	\$75.00	Provided PM with pricing information for double locations as requested by dmi.
7/19/2012	3.00	150.00	\$450.00	Began to work on preliminary map to place additional DO locations in response to EPA/CDM feedback on doubling locations. Discussed locations, water depth, and access with OSI. Coordinated with GIS staff.

7/20/2012	5.50	150.00	\$825.00	Participated in call to discuss DO monitoring QAPP with CDM and USEPA. Contacted OSI and discussed equipment, timing, and sampling locations. Began to update QAPP, reviewed AECOM physical water quality monitoring QAPP (EPA suggested DO QAPP become an addendum to this QAPP) and worked with GIS staff to update DO QAPP.
7/23/2012	1.50	150.00	\$225.00	Continued to revise DO monitoring QAPP based on EPA/CDM feedback.
7/24/2012	5.00	150.00	\$750.00	Continued to work on DO monitoring QAPP and address PM's feedback. Continued to coordinate with GIS to revise location figure. Addressed editor's questions and helped prepare document for delivery to dmi.
7/25/2012	0.50	150.00	\$75.00	Revised QAPP for delivery to EPA and updated OSI on status.
Summary for Jennifer Parker				
	16.75		\$2,512.50	

Karen Tobiason

Date	Hours	Rate	Extended	Notes
7/30/2012	2.00	150.00	\$300.00	Respond to CPG comments on DO monitoring QAPP; research additional references; work on logistics.
Summary for Karen Tobiason				
	2.00		\$300.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/2/2012	1.00	160.00	\$160.00	planning for do monitoring
7/23/2012	4.00	160.00	\$640.00	update DO qapp
7/24/2012	2.00	160.00	\$320.00	finish do qapp and send to epa (rob sent to epa wed, 7/25)
Summary for Lisa Saban				
	7.00		\$1,120.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
7/20/2012	2.00	170.00	\$340.00	Participate in call with EPA on QAPP and work on QAPP changes and EPA questions
7/24/2012	1.00	170.00	\$170.00	Address QAPP issues regarding station locations
Summary for Mike Johns				
	3.00		\$510.00	

Thai Do

Date	Hours	Rate	Extended	Notes
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7/24/2012	2.75	110.00	\$302.50	Work on finalising DO QAPP; create wet sieving SOP (Attachment AA); review prior to submittal to CPG
7/25/2012	0.25	110.00	\$27.50	Field coord with OSI
7/30/2012	1.00	110.00	\$110.00	Field coord with OSI
Summary for Thai Do				
	4.00		\$440.00	

Summary for Task 37 DO Monitoring Program
36.25 **\$5,267.50**

Task 38.1 Background Tissue QAPP Addendum

Craig Hanson

Date	Hours	Rate	Extended	Notes
7/24/2012	0.50	110.00	\$55.00	Generating proposed sampling areas map.
Summary for Craig Hanson				
	0.50		\$55.00	

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/20/2012	1.25	150.00	\$187.50	Reviewed RARC Appendix B in order to begin creating QAPP worksheets and coordinated with editor to create QAPP document.
7/23/2012	2.50	150.00	\$375.00	Worked on background tissue QAPP and coordinated with GIS staff .
7/24/2012	1.50	150.00	\$225.00	Continued to work on background tissue QAPP and continued to coordinate with GIS staff
7/25/2012	3.25	150.00	\$487.50	Continued working on key QAPP worksheets and coordinated with GIS staff.
7/26/2012	1.25	150.00	\$187.50	Began discussions with some labs to update them on upcoming work and review of what additional worksheet should be updated.
7/27/2012	2.50	150.00	\$375.00	Contacted BRL to request price quote. Compared detection limits for Test America vs. Maxxam for PAHs and pesticides for laboratory selection discussion. Reviewed PMs final changes to QAPP worksheets.
7/30/2012	2.50	150.00	\$375.00	Continued calling labs and requested price quotes, sent lab information on QC criteria from Fish/Decapod QAPP, answered lab questions on price quotes. Reviewed AECOM QAPP to confirm language of dmi requested validation language revision.
7/31/2012	1.50	150.00	\$225.00	Created and sent request for price request to AP for D/F and PCB congener analysis for background samples. Created and sent price quote request to Alpha (including tissue processing).
Summary for Jennifer Parker				
	16.25		\$2,437.50	

Kim Goffman

Date	Hours	Rate	Extended	Notes
7/23/2012	0.50	110.00	\$55.00	Provide data support for upstream tissue QAPP preparation.
7/25/2012	1.00	110.00	\$110.00	Provide data support for upstream tissue QAPP preparation.
7/26/2012	1.00	110.00	\$110.00	Provide data support for upstream tissue QAPP preparation.
Summary for Kim Goffman		2.50	\$275.00	

Linda Cognato

Date	Hours	Rate	Extended	Notes
7/20/2012	0.50	110.00	\$55.00	Created template for background QAPP. Duplicated and revised DO QAPP addendum to create background QAPP addendum. Changed footers, changed headers, added worksheets, updated intro, removed existing information.
Summary for Linda Cognato		0.50	\$55.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/24/2012	4.00	160.00	\$640.00	work on tissue qapp tables and rationale
7/25/2012	4.00	160.00	\$640.00	continue working on backgroun tissue qapp
Summary for Lisa Saban		8.00	\$1,280.00	

Lucinda Tear

Date	Hours	Rate	Extended	Notes
7/25/2012	1.00	150.00	\$150.00	review and help revise text re sample sizes and power.
Summary for Lucinda Tear		1.00	\$150.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
7/24/2012	1.00	170.00	\$170.00	Work on QAPP issues
Summary for Mike Johns		1.00	\$170.00	

Shannon Katka

Date	Hours	Rate	Extended	Notes
7/23/2012	3.50	150.00	\$525.00	begin drafting Worksheets 10 and 11 for tissue QAPP addenda and sampling design
7/24/2012	4.75	150.00	\$712.50	draft for Worksheets 10, 11, 17 for tissue QAPP addenda and sampling design
7/25/2012	2.75	150.00	\$412.50	begin draft of Worksheets 13, 14, 16, and 18 for fish QAPP; edits to fish QAPP selected worksheet language based on Lisa review
7/26/2012	2.25	150.00	\$337.50	complete draft of Worksheets 13, 14, 16, and 18 for fish QAPP, including determination/rationale of sampling locations, documentation of sampling tasks, proposed schedule and documentation of secondary data sources
7/27/2012	1.25	150.00	\$187.50	edits to fish tissue addendum based on consistency of language with benthic addenda, review final draft worksheet language submitted to dmi, update schedule
Summary for Shannon Katka				
	14.50		\$2,175.00	

Susan McGroddy

Date	Hours	Rate	Extended	Notes
7/26/2012	1.50	160.00	\$240.00	Review lab consistency issues for QAPP.
Summary for Susan McGroddy				
	1.50		\$240.00	

Thai Do

Date	Hours	Rate	Extended	Notes
7/24/2012	3.00	110.00	\$330.00	Beginn work on tissue QAPP addendum, methods, locations, species, # samples.
7/25/2012	3.75	110.00	\$412.50	Continue on fish QAPP addendum; community survey, locations, recon.
7/26/2012	2.00	110.00	\$220.00	Contue updating fish tissue addenum worksheets; field logistics
7/27/2012	2.25	110.00	\$247.50	Contact subcontractors for cost estimates; put together field teams
7/30/2012	4.00	110.00	\$440.00	Work on fish permit; begin scoping for fieldwork; calling subs for cost estimates
7/31/2012	3.00	110.00	\$330.00	Continue scoping costs and working on QAPP addendum worksheets
Summary for Thai Do				
	18.00		\$1,980.00	

Summary for Task 38.1 Background Tissue QAPP Addendum
63.75 \$8,817.50

Task 38.2 Background Benthic QAPP Addendum

Brian Church

Date	Hours	Rate	Extended	Notes
7/26/2012	1.75	110.00	\$192.50	Determining if there were significant differences between stations with coarse or fine grained sediments in FW samples; fielding emails
Summary for Brian Church				
	1.75		\$192.50	

Craig Hanson

Date	Hours	Rate	Extended	Notes
7/23/2012	6.00	110.00	\$660.00	Generating proposed sampling locations and map
7/24/2012	6.00	110.00	\$660.00	Generating proposed sampling locations and map
Summary for Craig Hanson				
	12.00		\$1,320.00	

Jennifer Parker

Date	Hours	Rate	Extended	Notes
7/23/2012	5.00	150.00	\$750.00	Conducted review of RARC background memo and related presentations. Worked on background benthic QAPP and coordinated with GIS to create figures.
7/24/2012	3.50	150.00	\$525.00	Continued to work on QAPP and continued to coordinate with GIS staff to create figures .
7/25/2012	3.25	150.00	\$487.50	Continued working on key QAPP worksheets and coordinated with GIS staff.
7/26/2012	6.00	150.00	\$900.00	Continued working on key QAPP worksheets and coordinated with GIS staff. Responded to PM review comments. Discussed labs and chemistry worksheets with PMs. Began discussions with some labs to update them on upcoming work.
7/27/2012	1.50	150.00	\$225.00	Contacted BRL to request price quote. Continued to work on key QAPP worksheets.
7/30/2012	2.50	150.00	\$375.00	Continued calling labs and requested price quotes, sent lab information on QC criteria from Benthic QAPP, answered lab questions on price quotes.
7/31/2012	0.50	150.00	\$75.00	Follow-up with labs on costing information and questions.
Summary for Jennifer Parker				
	22.25		\$3,337.50	

Karen Tobiason

Date	Hours	Rate	Extended	Notes
7/31/2012	0.75	150.00	\$112.50	Contact toxicity and taxonomy labs for quotes
Summary for Karen Tobiason	0.75		\$112.50	

Kim Goffman

Date	Hours	Rate	Extended	Notes
7/26/2012	2.00	110.00	\$220.00	Provide data support for upstream benthic QAPP preparation.
7/27/2012	1.50	110.00	\$165.00	Provide data support for upstream benthic QAPP preparation.
Summary for Kim Goffman	3.50		\$385.00	

Linda Cognato

Date	Hours	Rate	Extended	Notes
7/25/2012	0.50	110.00	\$55.00	Quick review and formatting of SOP
7/26/2012	0.50	110.00	\$55.00	checked and fixed headers and footers; changed dates
7/26/2012	0.50	110.00	\$55.00	Quick review of headers and footers of revised document; performed several sweeps.
Summary for Linda Cognato	1.50		\$165.00	

Linda Marsh

Date	Hours	Rate	Extended	Notes
7/25/2012	1.50	90.00	\$135.00	Calculated river mile and XY coordinates for proposed sediment chemistry sampling locations and added location labels to the map.
7/26/2012	4.00	90.00	\$360.00	Identified and mapped proposed SQT locations and coordinates for the benthic sediment QAPP.
Summary for Linda Marsh	5.50		\$495.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
7/24/2012	1.00	160.00	\$160.00	benthic qapp tables
7/25/2012	2.00	160.00	\$320.00	work on benthic backgrd qapp
7/26/2012	5.00	160.00	\$800.00	work on benthic qapp rationale, particularly sample location criteria

Summary for Lisa Saban

8.00

\$1,280.00

Shannon Katka

Date	Hours	Rate	Extended	Notes
7/23/2012	1.75	150.00	\$262.50	work with Jennifer on benthic sediment sampling design and rationale
7/24/2012	3.00	150.00	\$450.00	write up draft for Worksheets 10, 11, 17 for sediment QAPP addenda and sampling design
7/25/2012	3.25	150.00	\$487.50	begin draft of Worksheets 13, 14, 16, and 18 for benthic QAPP; refinement of sediment sampling location design placement
7/26/2012	5.25	150.00	\$787.50	complete draft of selected Worksheets for client/dmi/AECOM review for benthic QAPP, including determination/rationale of sampling locations, documentation of sampling tasks, proposed schedule and documentation of secondary data sources
7/27/2012	2.00	150.00	\$300.00	edits to benthic sediment addendum based on consistency of language with tissue addenda; add details on fish health assessment collection and methods, update schedule

Summary for Shannon Katka

15.25

\$2,287.50

Thai Do

Date	Hours	Rate	Extended	Notes
7/24/2012	2.00	110.00	\$220.00	Begin work on sampling locations for sediment chemistry and SQT locations
7/25/2012	4.00	110.00	\$440.00	Continue work on updating worksheets for sediment QAP addendum
7/26/2012	5.75	110.00	\$632.50	Continue with additonal rationale worksheets for benthic QAPP addendum; work on field sampling logistics; select SQT locations based on stream morphology and expected grain size; review avail grain size data (above Dundee Dam)
7/27/2012	3.50	110.00	\$385.00	Edit WS 18 and map; contact subcontractors for cost estimates; field team coord.
7/30/2012	3.00	110.00	\$330.00	Begin scoping for fieldwork; calling subs for cost estimates
7/31/2012	3.00	110.00	\$330.00	Continue scoping costs and working on QAPP addendum worksheets

Summary for Thai Do

21.25

\$2,337.50

Summary for Task 38.2 Background Benthic QAPP Addendum**91.75****\$11,912.50****Summary for Passaic RI****817.25****\$106,817.50**

Heidi Enders

From: Lisa Saban
Sent: Monday, June 18, 2012 10:12 AM
To: Heidi Enders
Subject: FW: In Response to Your Refund Inquiry

Refund towards Alaska Passaic flight

Lisa Saban
Partner
Windward Environmental, LLC
200 West Mercer St., Suite 401
Seattle, WA 98119
206-399-6095 (cell)
206-577-1288 (office)
lisas@windwardenv.com
www.windwardenv.com

Privileged and Confidential: Prepared at Request of Counsel

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From: Alaska Airlines Refunds [mailto:mp.member@mymileageplan.com]
Sent: Friday, June 15, 2012 1:03 AM
To: Lisa Saban
Subject: In Response to Your Refund Inquiry

To ensure receipt of our emails, please add mp.member@mymileageplan.com to your address book today.

Alaska Airlines.
Horizon Air.

Reservations	Deals	Destinations	Mileage Plan	More...
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June 15, 2012

LISA SABAN
200 WEST MERCER ST
SUITE 401
SEATTLE, WA, 98119

This is in response to your recent inquiry regarding your refund. The following action or situation has occurred: A credit was issued to VM XXXXXXXXXXXX1846 account on 06/15/12 in the amount of \$175.00. Allow 3-5 business days for the bank to post the credit to your account. Please contact your credit card company with any further inquiries..

If you have any questions, please call us at (206) 392-7722 or email us at refunds@alaskaair.com.

Heidi Enders

From: Alaska Airlines [alaska.it@alaskaair.com]
Sent: Thursday, June 28, 2012 5:18 PM
To: Heidi Enders
Subject: Duplicate Receipt sent from alaskaair.com

This duplicate receipt has been sent to you from alaskaair.com with the following message:

Passaic - will confirm task #.

Thank you for choosing Alaska Airlines!

This is an auto-generated e-mail. If you have questions, please contact Alaska Airlines Reservations at 1-800-252-7522 (TTY/TDD 1-800-682-2221).



Traveler Information

Traveler	Seats **	Additional Service Requested	Required Traveler Documentation
Name:			
Lisa Saban			
MP#:	1F, 2C		Enter Known Traveler/Redress number
Alaska 38296635 - Gold			
E-Ticket:			
0272189532038 ✓			
Name:			
Michael Johns			
MP#:	1D, 3A		Enter Known Traveler/Redress number
Alaska 12486191 - Gold			
E-Ticket:			
0272189532039 ✓			

** Air Carrier Access Act requires us to make certain seats available to customers with disabilities. If you are assigned one of these seats and a qualified person requests it, you will be reaccommodated at the airport in another seat.

Flights

Flight Confirmation Code: **KUTITN**

Flight

Departs

Arrives



Alaska Airlines 8
First | Nonstop | [Details](#)

Seattle, WA (SEA)
8:55 am Tue, Jul 31

Newark-Newark
Intl. (EWR)
5:14 pm Tue, Jul 31



Depart Seattle, WA (SEA) 8:55 am, Jul 31
Arrive Newark-Newark Intl. 5:14 pm, Jul 31 (EWR)

Duration: 5h 19m | Distance: 2394 | % on-time: 45% | % late 30+ min: 36% | % cancelled: n/a
Aircraft: Boeing 737-800 | Meal: Breakfast **

Performance data is based on previous month
** Special meal requests are not available.

Total: 2,394 mi | 5 h 19 m



Alaska Airlines 7
First | Nonstop | [Details](#)



Alaska Airlines 7
Depart Newark-Newark Intl. (EWR) 6:15 pm, Aug 02
Arrive Seattle, WA (SEA) 9:28 pm, Aug 02
Newark-Newark Intl. (EWR) 6:15 pm Thu, Aug 2
Seattle, WA (SEA) 9:28 pm Thu, Aug 2
Duration: 6h 13m | Distance: 2394 | % on-time: 21% | % late 2
30+ min: 50% | % cancelled: n/a
Aircraft: Boeing 737-800 | Meal: Dinner **

Performance data is based on previous month
** Special meal requests are not available.

Total: 2,394 mi | 6 h 13 m

Total Price for 2 Travelers

\$3,139.20 including taxes & fees

	Fare	Taxes & Fees	Charges
--	------	--------------	---------

Airfare
for Lisa \$1,548.00 \$21.60 \$1,569.60

Saban :

Airfare
for Michael \$1,548.00 \$21.60 \$1,569.60

Johns :

Amount Charged: \$3,139.20

Low Price Guarantee

Amount Charged

\$3,139.20 USD

Billing Account
Billing Period End Date
Cardholder Name

Card Account No.
Transaction Date

Posting Date

Department

Transaction Amount

Supplier Name

Supplier Location

06/22/2012

06/25/2012

98006967522NWS

John BB

US, 800-331-0500 GA

06/26/2012

06/28/2012

✓

30.00

TAXI-PASS.COM

US, NEWARK NJ

06/26/2012

06/28/2012

✓

38.00

PUGET SOUND DISPATCH

LPR 36.3

US, SEATTLE WA

06/28/2012

07/04/2012

✓

45.00

PUGET SOUND DISPATCH

LPR 36.3

US, SEATTLE WA

06/29/2012

07/02/2012

✓

457.70

HAMPTON INN AND SUITES

Passaic

US, HARRISON NJ

06/29/2012

07/02/2012

need

✓

457.70

HAMPTON INN AND SUITES

36.3

US, HARRISON NJ

06/30/2012

07/02/2012

✓

298008596818NWS

US, 800-331-0500 GA

07/02/2012

07/04/2012

✓

STORE00012526

US, BAINBRIDGE IS WA

07/02/2012

07/03/2012

✓

BUS DELIV 115

US, 425-640-7700 WA

07/05/2012

07/09/2012

✓

AIR 02721898508

US, SEATTLE WA

07/06/2012

07/09/2012

✓

US, 800-331-0500 GA

07/06/2012

07/09/2012

✓

US, 206-3437828 WA

07/07/2012

07/09/2012

✓

RECURRING PMT

US, 800-937-8997 WA

07/09/2012

07/10/2012

✓

RECURRING PMT

US, 800-937-8997 WA

Totals for JOHNS, MIKE 4007 07/02/2012

4,004.83

18 Transactions

LOVE, JENNY
Company Billing Detail

WINDWARD ENVIRONMENTAL (13302609)

Enders 07/18/2012 11:15 AM

Page 2 of 15



NEW JERSEY DIVISION OF FISH AND WILDLIFE

Bureau of Freshwater Fisheries

P.O. Box 394 Lebanon, NJ 08833

Phone: (908) 236-2118 Fax: (908) 236-7280



APPLICATION FOR A PERMIT TO COLLECT FISH FOR SCIENTIFIC PURPOSES (\$22.00 FEE)

(Make Check Payable To: NJDFW)

ALL ITEMS MUST BE COMPLETED (PLEASE PRINT OR TYPE)

APPLICANT INFORMATION			OFFICIAL USE ONLY	
ORGANIZATION/COLLEGE OR SCIENTIFIC INSTITUTION AND ADDRESS WITH WHICH ASSOCIATED WINDWARD ENVIRONMENTAL, LLC			DATE RECEIVED	PERMIT #
LAST NAME (If organization indicate contact person) FIRST NAME M.I. DO, THAI			DRAINAGE:	
STREET ADDRESS 200 W MERCER ST., SUITE 401			FEE:	
CITY/TOWN SEATTLE	STATE WA	ZIP CODE 98119	CASH <input type="checkbox"/> CHECK <input type="checkbox"/> EXMPT <input type="checkbox"/>	
TELEPHONE (DAYTIME) (206) 812,5407		TELEPHONE (EVENING) ()	DECISION: (CHECK, INITIAL, DATE)	
PLEASE LIST NAMES OF ADDITIONAL PERSONNEL COLLECTING UNDER YOUR SUPERVISION: SARAH FOWLER, SUZANNE REPLINGER, SHANNON KATKA, MICHAEL YARNES, BRIAN CHURCH, JESSICA HUYBRECHTS. BOAT CAPTAIN IS STEVEN BRODMAN FROM AQUA SURVEY INC.			APPROVE <input type="checkbox"/> DENY <input type="checkbox"/>	
SPECIES TO BE COLLECTED: COMMON CARP, SMALLMOUTH BASS, LARGEMOUTH BASS, CHANNEL CATFISH, BROAD BULHEAD, YELLOW BULHEAD, AMERICAN EEL			BIOLOGIST _____ DATE _____	
LOCATIONS WHERE COLLECTING IS PROPOSED: PASSAIC RIVER, FROM DUNDIE DAM (RM 17.4) TO FAIRLAWN AVE. (RM 21.5)			EFFECTIVE DATE:	
EQUIPMENT PROPOSED TO BE USED IN COLLECTING: GILLNETS, EEL TRAPS, TROT LINES, AND ELECTROFISHING GEAR			EXPIRATION DATE:	
TIME OF YEAR COLLECTION WILL TAKE PLACE: LATE SUMMER TO EARLY FALL 2012 (SEP/OCT 2012)			CONDITIONS:	
PURPOSE OF SCIENTIFIC INVESTIGATION: TO EVALUATE THE EXTENT TO WHICH CHEMICAL CONCENTRATIONS IN FISH TISSUE FROM THE LOWER PASSAIC RIVER MAY BE THE RESULTS OF OFF-SITE INPUTS (ORIGINATING FROM ABOVE DUNDIE DAM).			STANDARD <input type="checkbox"/> ADDITIONAL <input type="checkbox"/>	
I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION PROVIDED IN THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE.			COMMENTS:	
31 JULY 2012 DATE			SIGNATURE OF APPLICANT ENVIRONMENTAL TITLE SCIENTIST	
IF THIS IS A RENEWAL, PLEASE SUBMIT A REPORT OF ACTIVITIES AND SPECIES COLLECTED UNDER PRIOR PERMIT.				
PLEASE ATTACH A COPY OF THE PROJECT PROPOSAL TO THE APPLICATION				
To be completed and returned to: New Jersey Division of Fish and Wildlife P O Box 394 Lebanon, New Jersey 08833 Attention: Lisa Barno				

Revised 3/2010

Passac
SeaTac International Airport
SeaTac International Airport
P.O. Box 68727

Seattle, WA 98168
(206) 787-5308

Receipt 3328/0607/607 06/28/12 21:16:59

010100 Pay Parking Ticket 80.00 \$
06/26/12 12:32 - 06/28/12 21:16
Length of stay: 2 Dy. 8 Hr. 44 Min.
02990717374011022178451410??
000001 SeaTacTax 3.00 \$

Total Amount 83.00 \$

Credit Visa 83.00 \$

Visa

3272

SABAN/LISA 0

Customer No. XXXX XXXX XXXX 1846

Amount = \$ 83.00

** Thank you **

WA Sales Tax 9.5% included

Terminal Direct \$4 per hour / \$35 max 1Day
General Parking \$3 per hour / \$28 max 1Day